



Real-time Network

Dynamic 30X

Pan & Tilt



30X PTZ Network Camera SNP-3300 User's Manual

Thank you for purchasing a SAMSUNG iPOLiS Network Camera, Before attempting to connect or operate this product, please read these instructions carefully and save this manual for future use,

iPOLiS

A brand that is integrated into Samsung's network products, *iPOLiS* stands for a convenient world (Polis) made safe (Police) through Samsung's superior network performance(Internet protocol). With *iPOLiS* products' clear digital images transmitted over the internet, real-time monitoring is possible anywhere with an internet connection. Easy remote control functions and the use of existing networks minimize installation costs. With *iPOLiS*, experience a world of convenience connected anytime, anywhere.

Preface

Thanks for purchasing of 30X PTZ Network Camera SNP-3300.

This is a user instruction manual for a 30X PTZ Network Camera SNP-3300 that employs Samsung Techwin's SVIII DSP system with superior low light capability.

The user who installs and operates the product shall be aware of this manual and other manuals referenced by this manual before the installation and operation and use properly.

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If you refer to the enclosed Quick guide and the Manual in the CD, you can learn how to use Network Manager.

Note to User

This machine's electromagnetic waves have been registered as suitable for business purposes; the retailer and consumer should be aware of this registration. If in the case of wrongful purchases, please exchange the product for a home use product.



Correct Disposal of This Product (Waste Electrical & Electronic Equipment)

(Applicable in the European Union and other European countries with separate collection systems)

This marking shown on the product or its literature, indicates that it should not be disposed with other household wastes at the end of its working life. To prevent possible harm to the environment or human health from uncontrolled waste disposal, please separate this from other types of wastes and recycle it responsibly to promote the sustainable reuse of material resources. Household users should contact either the retailer where they purchased this product, or their local government office, for details of where and how they can take this item for environmentally safe recycling. Business users should contact their supplier and check the terms and conditions of the purchase contract. This product should not be mixed with other commercial wastes for disposal.



Samsung Techwin cares for the environment at all product manufacturing stages to preserve the environment, and is taking a number of steps to provide customers with more environment-friendly products. The Eco mark represents Samsung Techwin s will to create environment-friendly products, and indicates that the product satisfies the EU RoHS Directive.



REFER

DO NOT REMOVE COVER (OR BACK), NO USER SERVICEBLE PARTS INSIDE. REFER SERVICING TO QUALIFIELD SERVICE PERSONNEL.

FCC Compliance Statement

Caution: Any changes or modification in construction of this device which are not expressly approved the party responsible for compliance could void the user's authority to operate the equipment

Note: This equipment has been tested and found to comply with the limits for a Class a digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which cause the user will be required to correct the interference at his own expense.

WARNING: Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

WARNING: To prevent electric shock and risk of fire hazards:

Do NOT use power sources other than that specified.

Do NOT expose this appliance to rain or moisture.

This installation should be made by a qualified service person and should conform to all local codes.

Product Warranty and Limitations

The manufacturers of this product do not take any responsibility for this product; therefore, the manufacturer does not authorize the third-party, but allows that retailer is responsible.

The product warranty does not extend to cover accidents, negligence, abuse, or wrongful use for the whole or any part of the product. Additionally, the manufacturer does not provide warranty for any additional parts or affiliations.

The warranty is for one year from the purchase date. During the period, warranty does not extend to malfunction in these areas.

- · Malfunction due to user's negligence
- · Dismantlement or replacement by the user
- Connection to alternate power source
- Malfunction due to natural disasters (fire, flood, tsunami, etc.)
- · Replacement due to wear and tear
- · Instability of network

Warning Symbols

Before attempting to connect or operate this product,

please read these instructions carefully and save this manual for future use



Danger:

Misuse or wrongful operation of the product may result in death, injury or bring about other fatal results. It indicates absolute caution when operating.



Caution:

Misuse or wrongful operation of the product may result in slight injury or damage to the product. It indicates caution when operating.



Note:

Indication that the user needs to be aware of certain matters, or will find matters helpful in operating the product.

Danger



Before Setup

- Please set up the proper voltage before connecting to power source
- Please be sure the power is turned off before setup.

- There is risk of shock or fire; be sure to avoid setup in places with high humidity.
- · To prevent shocks, please connect the ground wire.
- Do not install the camera on a surface that can not support it.
- Unless the surface is suitable, it could cause falling or other hazards

During Use

- When opening the product cover, there is a risk of electric shock. Only a professional should open the cover.
- Please use only in an environment with standard temperature and humidity.
- Please do not plug in multiple products to a power source; it is
 often the cause of fires.
- Please do not place water or heavy objects on the product; it is often a cause of malfunction.
- Please do not use in a location with propane gas, gasoline or other flammable substances to avoid risk of explosion or fire.
- Please do not touch the power plug with wet hands to avoid electric shock.
- Do not pull on the power plug with too much force; a damaged plug may cause electric shock or fires.
- Don't connect the RJ-45 cable to a terminal by constraint.
- Stop using your camera when you find a malfunction.
 If you use your camera around smoke or unusual heat for a long time, Fire may be caused.

- Random replacement of built-in battery by other types of batteries may cause explosion. The battery shall be replaced by the same battery. The used batteries shall be disposed carefully because they can cause environment pollutions.
- The battery shall be replaced by the same battery.
- The used batteries shall be disposed carefully because they can cause environment pollutions.

Disassembly and Cleaning

- There is a risk of malfunction, shock or other dangers. Please do not disassemble or attempt to fix the product.
- To prevent malfunction or shock, please do not use a wet cloth or oil-based cleaning product to clean the product exterior.
 Clean the exterior of the product with a dry cloth.

Caution



Do not install under extreme temperature conditions
 Use only under temperature conditions between -0°C and
 +40°C. Provide good ventilation when using in high
 temperature conditions.

- Do not install under unstable lighting conditions.
 Severe lighting changes or flickering may hinder normal camera operation.
- Do not drop the camera or subject it to physical shock.
 May cause a product malfunction.
- Never keep the camera face to strong light directly.
 May damage the CCD.
- Avoid touching the camera lens.
 The lens is the most important component of the camera. Be careful not to smear it with fingerprints.
- Do not expose the camera to rain or other types of liquids
 Wipe dry any liquids. Liquids may contain minerals that are corrosive to Electronic components.
- Do not expose the camera to radioactivity.
 Radioactivity exposure may damage the CCD.
- Do not disassemble the camera.
 If you disassemble the product as you please, a Repair Center doesn't repair it for free.
- Please check the created network place first, before trying to connect to a network.
- Please use only the power adapter that is provided with the product.
- Please check national laws to be sure that using the product for monitoring purposes is not illegal.

Ch1. Overview

1.1. 30X PTZ Network Camera SNP-3300 Introduction

The SNP-3300 is a high-tech network camera that uses MPEG-4 codec technology to allow high compression rates and clear picture quality by allowing for high frame rates to be transmitted through the network

By using the network, remote connection, monitoring, and control is possible from any location for simple use; additionally, set-up requires only a network.

The 30X PTZ Network Camera SNP-3300 utilizes embedded software solutions (Embedded Web Server, Embedded Streaming Server, Network Protocol) developed by SamsungTechwin, and guarantees performance and safety while offering various solutions through Internet integration.

1.2. Features

O 30X Zoom Lens with Auto-Focus Function

The 30X zoom lens having Auto-focus function magnifies the image up to 240 times when used with the digital 8X zoom function

O Variable Auto Surveillances

· Individual Preset Saving mode

11 camera adjustment function can be saved independently in each Preset menu to provide optimum images.

Image Hold

Images can be held while moving between Presets to reduce

visual fatigue of observers.

Various Protocols

Five different makers protocols are supported: Samsung Techwin, Pelco, Samsung Electronics, Panasonic and Vicon.

PTZ Tracking

4 patterns operated with the joystick can be saved and replayed by users.

Auto Swing

Pan or Tilt is operated in sequence between 2 designated positions.

Group Search

Maximum 128 Preset positions are toured in order.

Tour Search

Maximum 6 Group Search functions are toured in order.

O Smart P/T

Even when the Zoom-In function is On for the Pan and Tilt speed correction function linked to the zoom position, fine manual operation is possible.

O Day & Night

Day & Night function of ICR(IR Cut-Filter Removal) and Sens-Up function can achieve optimum images during day and night.

*Sens-Up function improves the CCD sensitivity by lengthening the exposure time using electricity.

*Day & Night function enables users to select and adjust the color and black and white images according to the light level.

128 Preset Position

A maximum of 128 Preset positions can be set up. This function enables users to set up the monitoring place any time..

O Digital Flip

When you want to monitor the moving object below the camera, you can execute the Digital Flip using the Webpage or Viewer. The moving object can be monitored without screen reverse.

O Area Masking

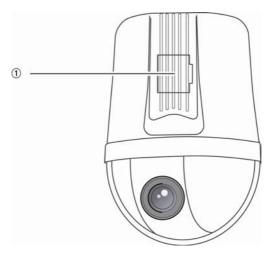
For privacy protection, a maximum of 8 areas can be masked among the surveillance areas preventing them to be displayed on the screen.

O High Data Compression ratio

With high data compression ratio based on MPEG-4, transmission speed is fast and relatively large number of frame can be transmitted on the same network bandwidth.

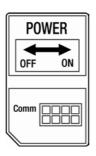
Ch2. Section names and functions

2.1. Body

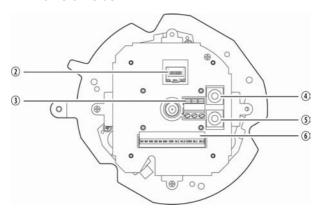


1 POWER Switch

Power ON/OFF. (Factory setting: OFF)



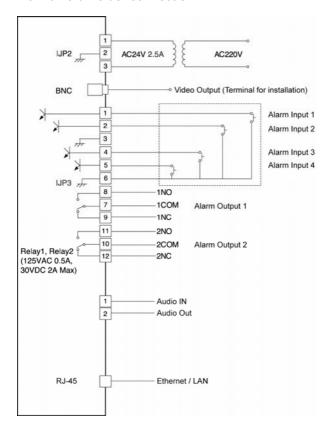
2.2. Camera Holder



- ② RJ-45 ETHERNET Connection Input
- 3 AC 24V Input
- **4** AUDIO INPUT
- **⑤ AUDIO OUTPUT**
- **6** Alarm Connection Input

1. IN1	2.IN2	3.GND	4.IN3
5.IN4	6.GND	7.COM	8.1N.O
9.1N.C	10.COM2	11.2N.O	12.2N.C

2.3. Camera Holder connection



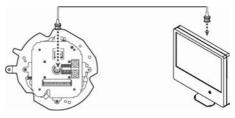
Alarm Connection Terminal(Camera Holder)

	NAME	Purpose	
UP3-#1	IN1	Alarm input sensor connection terminal1	
UP3-#2	IN2	Alarm input sensor connection terminal2	
UP3-#3	GND	GND	
UP3-#4	IN3	Alarm input sensor connection terminal3	
UP3-#5	IN4	Alarm input sensor connection terminal4	
UP3-#6	GND	GND	
UP3-#7	COM1	Alarm Output1 Common	
UP3-#8	1N.O	Alarm Output1(for Normal Open)	
UP3-#9	1N.C	Alarm Output1(for Normal Close)	
UP3-#10	COM2	Alarm Output1	
UP3-#11	2N.O	Alarm Output2(for Normal Open)	
UP3-#12	2N.C	Alarm Output2(for Normal Close)	

Ch3. Installation and Network Setup

3.1. Connecting to Monitor (For installation)

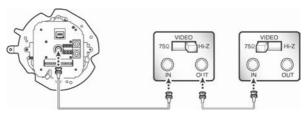
Please connect the video output terminal located on the back of the camera to the monitor.



30X PTZ Network Camera SNP-3300

Monitor

- The connection method varies depending on the type of monitor and accessories. Please refer to the user's manual for each instrument.
- Please turn off the power when connecting.
- Please select Hi-Z on the 75Ω/Hi-Z switch for the intermediate video TV set and select 75Ωfor the Intermediate device as shown in the picture below.



30X PTZ Network Camera SNP-3300 Intermediate

End monitor



- This product is the network camera which transmits video through network, video output terminal is for installation and used to determine imaging range when installing the product.
- It could have a trouble, like a falling-off in video quality, if you use for monitoring.

3.2. Connecting to Power

AC24V 2.5A can be used for the input power of this product. Connect the Power Adapter Cable. Use a driver (-) to screw one part of the Power Adapter consisting of two lines to the holder.



Connect the Power Adapter's plug to the Power Outlet.

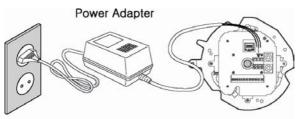


Table 3-1. When the resistance value of copper wire is at [20 ℃ (68°F)]

Copper wire size (AWG)	#24 (0.22mm)	#22 (0.33mm)	#20 (0.52mm²)	#18 (0.83mm²)
Resistance value (Ω/m)	0.078	0.050	0.030	0.018
Voltage drop(V/m)	0.028	0.018	0.011	0.06

- As shown in the Table3-1, voltage decreases as the wire gets longer. Therefore use of an excessively long adaptor output line for connection to the camera may affect the performance of the camera.
- Standard voltage for camera operation: DC 12V±10%, AC 24V±20%
- * There may be some deviation in voltage drop depending on the

3.3. Installation of SNP-3300

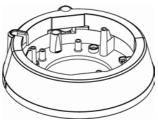
■ Installation Precautions

- Check out the installation place. It should be strong enough to support more than 4 times the total product weight including 30X PTZ Network Camera (SNP-3300) and installation structure.
- Install the camera in a place having more than 500mm of space above the ceiling board.
- Install the camera holder using the provided installation guide tab, screw and fastening cable.
- There is a risk of camera falling during installation. Prevent the fall using the fastening cable while installing the camera. Also, access of other people to the place should not be allowed during installation.

Accessories Sold Separately

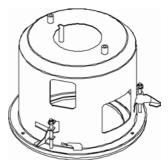
Use the following accessories sold separately for convenient installation

Ceiling Bracket(STB-330PC)
 This mount is used to install the camera on the ceiling.



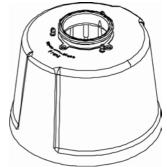
Embedded Housing(STH-330PEV)

This housing is used to attach the speed dome camera to the ceiling for installation.

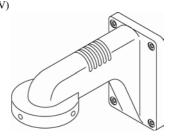


Indoor and Outdoor Housing(STH-330PIV, STH-320PO)

This housing is used to attach the speed dome camera to the ceiling for installation.



Wall Bracket(STB-270PWV)
 This item is used to install
 the indoor or outdoor
 housing for speed dome
 on the wall.



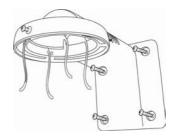
Pendant Bracket(STB-496PPV)
 This item is used to install
 the indoor and outdoor housing for speed dome on a concrete ceiling.

.

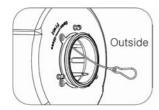


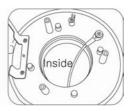
■ Camera Installation(Outdoor Housing)

1. Fasten the ceiling mount on the ceiling.

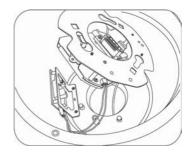


Pull outside of the housing the safety wire fastened to the outdoor housing.





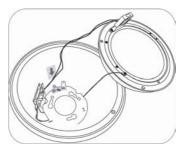
 Match the arrow sign marked on the camera holder to the arrow marked inside the housing and then install the camera holder in the housing.



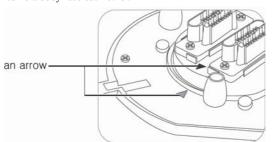
 Match the arrow sign marked on the camera holder to the arrow marked inside the housing and then install the camera holder in the housing.



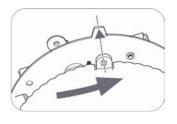
 Connect the heater and fan cables within the housing to the fan heater PCB.



Adjust and make the arrows marked on the bottom of the camera body face each other.



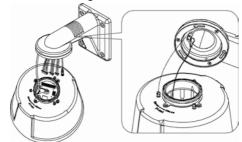
 Insert the camera into the housing by matching the installation pin on the bottom of the camera and the arrow inside the housing, and then fasten the camera by inserting into the fastening hole, turning the screw clockwise for fastening.



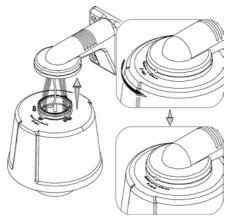
Remove the camera dome cover and then the attach the housing dome cover.



Connect the housing safety wires to the fixture inside the mount installed on the ceiling.



Connect the video cable, LAN cable and the power adapter cable to the camera holder.



 Check out the connection of all parts and the camera and install the completed outdoor housing on the ceiling mount.



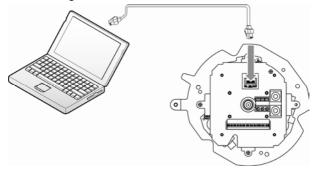


- Check out the input voltage of the power adapter before connecting the power.
- For an installation without housing, the camera can be installed with installation template, fastening the cable and screw provided separately.
- It is necessary to tighten the screw to prevent unfastening.
- If the screw to prevent unfastening is not tight, the camera installed may fall due to vibration or shock from the environment.

3.4. Network configuration and connection method using Web page

Use when there is one 30X PTZ Network Camera SNP-3300 to be installed.

 Please connect user's PC to 30X PTZ Network Camera SNP-3300 using cross cable.





To configure network, the internal IP must be registered in the user's PC.

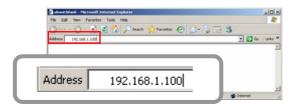


 After pressing internet protocol (TCP/IP) properties, press the 'advanced' button to go into advanced configurations.



Add with 192.168.1.XXX.

 Please launch a Web browser on user's PC and enter [192.168.1.100] in the URL address field and push <Enter> button. Connect to Webviewer login window of 30X PTZ Network Camera SNP-3300.



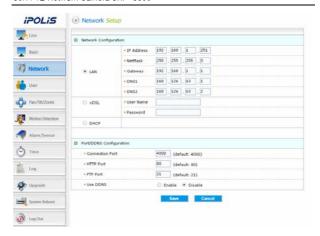
3. Please login with administrator's authorization and move to 'Setup-Network' page.





Default value is ID: admin, PW: 11111111

 Please configure according to the network environment where 30X PTZ Network Camera SNP-3300 will be installed and push <Save> button to save the configuration.

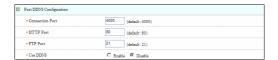


1 LAN / xDSL/ DHCP Configuration



Item	Description
LAN Use	When network product is connected to normal local LAN or when connected to static IP, the network data to be allotted to the IP is configured.
xDSL	When using xDSL dynamic IP, enter the ID and PW.
Video Quality	When automatically receiving IP through DHCP server, the DHCP functions are activated. 'DHCP' is used in the LAN environment where the DHCP is activated. Generally, for mid/large scale, DHCP servers are operated through LAN and for small-scales, IP sharers use DHCP functions.

② Port Configuration



Item	Description
Port Setting	The connection port and http, ftp port configurations can be set here and the DDNS use can be checked.



Use DDNS changes its IP address every time the user attempts to connect to the ISP and when the product is connected to a cable modem or xDSL modem. In this case, the user cannot know the changed IP address. When a product that uses dynamic IP is registered on the DDNS server, when wishing to connect to the product, the changed IP address can be easily recognized. In order to register the IP address to the DDNS server, set Use DDNS as Enabled.

Ch4. How to Use Web Viewer

4.1. How to Use Web Viewer

4.1.1. Login

To connect to the login page, enter network camera IP address on the internet web browser and press the enter key.



Enter user ID and password and push <Login> button, it then moves to the appropriate Web page.



Default value is ID: admin, PW: 11111111

If you click <Guest> button, it moves to WebViewer page under the Guest authenticated status. However, administrator has to permit guest access for this.



If you logged in first in administrator mode, please change the password of administrator. It can prevent other users from connecting to the administration page.

4.1.2. Web Viewer screen

Web Viewer screen is composed of menu area for camera/video configuration and screen area for displaying input video from camera



■ Controls



Flip Image Vertical reversal of channel screen







Stretch Image

When selecting resolution with Half D1 and CIF, stretches channel screen to resolution D1 size.







Save Image

Saves channel screen to 'JPEG file'.



Quad

Converts to 4 split screens (applied only to 4 channel server).



Channel

Video server channels (applies only to 4channel servers)

- CH1~CH4

Compression

Video compression mode (the mode of compressing video)

- MPEG, JPEG

Resolution

Video resolution (the size of video screen transmitted)

- NTSC : D1(704x480), Half D1(704x240), CIF(352x240)

- PAL : D1(704x576), Half D1(704x288), CIF(352x288)

Frame Rate

The number of maximum video frame transmitted for each second.

- 1. 5. 10. 15. 20. 25. 30

Quality

Quality Configures video quality

- Very High, High, Normal, Low, Very Low



Pause

Stops video for a while.



OSD

Displays related information.



Displays the title



Removes the title



Deinterlace

On/off function of Deinterlace.



Screen where Deinterlace is not applied



Screen where Deinterlace is not applied



Deinterlace is a function to adjust the video quality softly by eliminating the border line which was made by an interlace function. The interlace function draws an even line and an odd line of the Image one after the other.



Camera Setup Displays OSD control button of camera.



Camera OSD control button is displayed



Camera OSD is displayed



Day&Night

Day&Night configuration function (Color, B/W configuration)



PTZ Control

PTZ control function



Screen where camera PTZ control window is displayed



The left/right slide bar can control focus (left slide bar) / zoom (right slide bar)

The "+" displayed in the middle can be pressed using the mouse as the base point of the Pan / Tilt and it will Pan /Tilt according to that point.

Instruction for Camera OSD control button



<↑>, <↓> button

Moves selection displaying arrows up and down on camera OSD menu.

<-->, <->> button

Changes configuration of selected field on camera OSD menu.

<Set> button

Displays camera OSD or moves to upper/lower menu of selected field

<Exit> button

Terminates camera OSD.

For configuring the function and detail operating method of 30X PTZ Network Camera SNP-3300, refer 'Ch5. How to Operate Camera'.

4.2. Using Administration page

4.2.1. Initialization Screen after Connecting

When connection is successful, the below screen will be displayed.



4.2.2. Live

Please Move to Web Viewer page





[Web Viewer live screen]

4.2.3. Basic

Configures basic information for camera.



Video/Audio Setup

Item	Description
Compression	Video compression mode (Compression mode of video in the camera)
Video Size	If the type of installed camera (NTSC/PAL) is selected, then the size of screen on the camera becomes selectable.
Video Quality	Selects the quality of video screen. In case of low speed internet, lower the video quality to see seamless video.

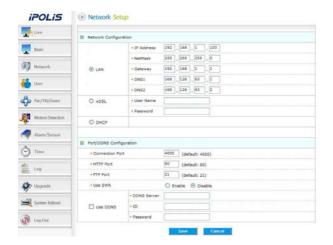
Item	Description
Video FrameRate	Configures the number of transmitted frame per second in the camera.
Video Channel	Selects the video channel to be used in the camera.
Audio-In Channel	Selects whether to use the audio input channel in the camera or not.
Audio-Out Channel	Selects whether to use the audio output in the camera or not.
Max User Count	Configures the number of users who can be connected to the camera through the network(1~20 persons)
Mic. Sensitivity	Audio amplifying function onfigures Low for the microphone which has amplifying function and High for the microphone which has no amplifying function. (In case of Line-In signal, configure Low)

Product Information

Item	Description	
Model	Displays model name of the camera.	
Mac Address	Displays MAC Address of the camera.	
Camera Name	onfigures name of the camera, it help to classify several cameras.	
Location	The location of the installed camera can be entered.	
Description	Additional description related to the camera can be entered.	
Memo	The contact of camera administrator can be entered.	

4.2.4. Network

Configures network information of the camera.



Network Configuration

According to the user's network environment, it is classified into LAN, xDSL, DHCP.

Item	Description	
LAN	In case the camera is connected to the local network or xDSL with a static IP address, configure network information to be assigned to the camera.	
xDSL	In case of xDSL with a dynamic IP address, enter password in UserName and Password field.	
DHCP	This case is selected in case of using IP sharing box/ cable modem.	

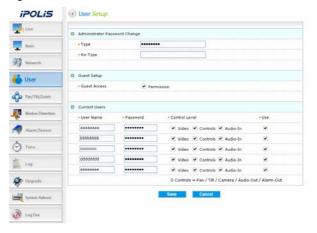
Port/DDNS Configuration

Item	Description
Connection Port	This controls communication with camera. (Default : 4000)
HTTP Port/ FTP Port	This helps to connect to web page or FTP server. (Default : http=80, ftp=21)
Use SWR	Select if use of SWR function is available. The way of connection which used ID does not support.
Use DDNS	Select if DDNS server is available. DDNS server is connected to server without reference to changed IP because there is possibility that floating IP constantly is changed.

A detailed explanation about DDNS usage refers to <Appendix A. DDNS Usage>.

4.2.5. User

This describes password change for administrator or user registration.



Item	Description
Administrator Password Change	Change password of administrator
Guest Setup	User clicks 'Guest' button to decide whether allowing guest to connect Main Viewer.
Current User	You can register new user or delete, and set up user's authority.

★ Set up user authority

User's authorities set up at 'Current User' are as follows.

Item	Description	
Video	Use video related setup function (Compression, Resolution, Framerate, Quality)	
Control	Pan, Tilt, Zoom, Audio output, Alarm output	
Audio	Audio Input	
USE	Whether relevant account is used (If not checked, not allowed log-in)	

Example 1) In case control function is limited (Do not check Controls box)



Pan, tilt, zoom, audio output, alarm output function icon is inactivated

Example 2) In case video function is limited (Do not check Video)



* Compression, Resolution, Framerate, Quality set up icon is inactivated.

4.2.6. Pan/Tilt/Zoom

Configures PTZ Swing and Preset of the camera.



Item		Description
	Channel	Select the channel of camera.
	PTZ Display	Display PTZ menu.
	OSD Display	Display OSD.
PTZ Camera Configura	Preset	Set or delete(delete, delete all) the Preset. Screen move the position of Preset.
tion	Swing	Surveille Pan/Tilt Swing at the position of preset, set up the swing menu.
	Group	Surveille repeatedly at the position of preset, set up the Group menu.
	First Setup	Indicate the first position of surveillant Preset
Swing	Second Setup	Indicate the second position of surveillant Preset
Setup	Mode	Select Pan/Tilt Mode.
	Speed	Set Swing speed between Presets.
	Duration	Set interval time on Preset.
Group	Group No.	Set Group Number among 1~6
	Preset No.	Set Preset included the Group.
Setup	Travel Speed	Set swing Speed between preset.
	Dwell Time	Set interval time on Preset.

4.2.7. Motion Detection

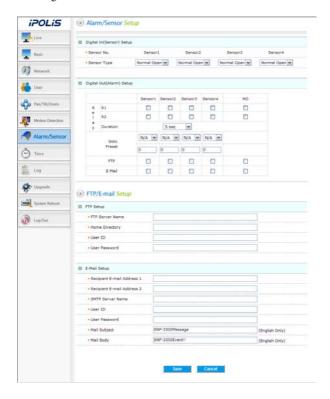
This sets up motion detection function of camera.



Item	Description	
Grid Display	Basic grid, used to choose area on the screen, is displayed or hidden.	
Select Area	When selecting motion detection area, click <select all=""> button to select all areas, or click <deselect> button to cancel the selected area.</deselect></select>	
MD Enable	Decide whether you use motion detection function.	
MD Sensitivity	Setting up sensitivity to detect motion to adjust input video by situation. You can select 1-5, and 5 is the highest.	

4.2.8. Alarm/Sensor

This sets up necessary information when using alarm function by attaching sensor to camera.



Alarm/Sensor Setup

♦ Digital In Setup

Item	Description
Sensor Type	Types of sensors are 'Normal open' and 'Normal close.' This selects up type of connected sensor.

♦ Digital Out Setup

Item	Description
Alarm	Set up Alarm Out responding when event is recognized by connected sensor (Sensor 1) or Motion Detection (MD)
Duration	Set up time to operate relay. It means the period from the time when sensor detects event to the time when relay is released.
FTP	In case event occurs by sensor (Sensor 1) or Motion Detection (MD) on the screen, decide whether transferring related information to FTP.
E-mail	In case event occurs by sensor (Sensor 1) or Motion Detection (MD) on the screen, decide whether transferring related information by e-mail.

E-mail/FTP Setup

Set up FTP server and e-mail information to which related information is transferred in case alarm occurs.

Item		Description		
Mode		Select media for data transfer.		
	Server Name	Enter domain or IP address of FTP server.		
FTP	Home Directory	Set up home directory to save relevant data at FTP server.		
	User ID	Enter ID to connect FTP server.		
	User Password	Enter PW to connect FTP server.		

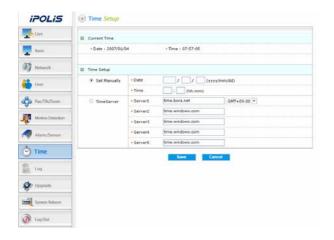
Item		Description	
	Recipient E-mail Address 1 Recipient E-mail Address 2	You can designate up to two e-mail address receiving data when alarm occurs.	
	Server Name	In case you use outside e-mail server, enter the name of the outside e-mail server.	
E-mail	ID	Enter ID to connect the outside e-mail server.	
	Password	Enter PW to connect the outside e- mail server.	
	Mail Subject	Enter the subject of mail to be transferred.	
	Mail Body	Enter the body of mail to be transferred.	



If motion is detected, the contents transferred by email or to FTP are varied according to the set-up of 'Video Compression' at Admin page (Basic).

- MPEG: Video length is set by 'Duration' of 'Digital Out Setup'.
 - File extension is 'ste', you can play this by supplied Player.
- JPEG: JPG type image file attached.

4.2.9. Time



Current Time

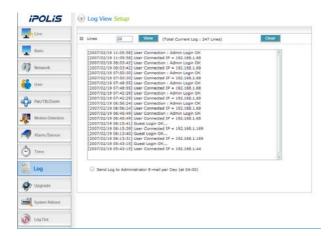
Item	Description	
Date	Current setup date displayed	
Time	Current setup time displayed	

Time Setup

Item	Description		
Set Manually	Adjust time manually.		
Time Server	Set up address of time server for Server 1 - 5.		

4.2.10. LOG

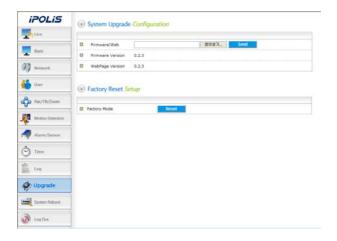
Recent activities made for camera are displayed as log.



Item	Description	
Lines Set up number of lines of the list.		
View	Log is viewed with number of lines you set up most recently.	
Clear	Delete logs.	

4.2.11. Upgrade

Upgrade program of 30X PTZ Network Camera SNP-3300.



System Upgrade Configuration.

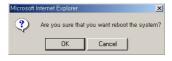
Item	Description
Firmware/Web	Upgrade firmware and Web-page of 30X PTZ Network Camera SNP-3300.

Factory Mode Setup

If you click <Reset> button, server is returned to initial value when shipped from the factory after confirmation procedure by administrator.

4.2.12. System Reboot

Server is rebooted after confirmation procedure of administrator.



Click <OK> button to reboot server.

Ch5. How to Operate Camera

5.1. OSD Menu Oganization

Dome camera can be set up on the OSD(On Screen Display) menu displayed on the video monitor by Network.

Menu	Function	Menu	Function	
TILT UP	Move up on the OSD menu	PAN LEFT	Move left on the OSD menu	
TILT DOWN	Move down on the OSD menu	PAN RIGHT	Move right on the OSD menu	

① Camera Setting

P1	P2	P3	P4	Defaults
	①Focus	①Focus Mode	Auto/Manual/ One Shot AF	OneShot AF
		2Zoom Tracking	Mode: On/Off	ON
			Speed: Slow/Fast	Fast
		3Digital Zoom	Off/2X/4X/8X	OFF
	W hite Balance	AWB Mode	ATW/AWC/MANUAL ►ATW -ATW(I): Indoor -ATW(O): Outdoor ►Manual -Temperature 2000K/3200K/5100 K -Red -Blue	3200 100 100
	③Exposure	Brightness	50	050
		2 Iris	Auto	Auto
			Manual: Iris Level	050
		Shutter		ESC
			A.FLK	
			Manual: 1/60~1/120, 000, x2~x128	1/60
		4 Sens-Up	Auto: Sens-Up Limit x1~x128	X4
				ESC
	◆Back Light	WDR	WDR Limit: High/Middle/Low	Middle
		Off		OFF
	• AGC	High/Middle/Low/Off		Middle
	G SSNR	High/Middle/Low/Off		MIDDLE
	7 Day &	Auto		
	Night	B/W	B/W Burst: On/Off	Burst
				ON
		Color	Burst Level	150

P1	P2	P3	P4	Defaults
	®Others	O Sync	Internal	
			Line Lock:	225
			Line Lock Phase	
		②Image Adj.	Tone	005
			Sharpness	050
			Color	050
		Freeze	On/Off	Off

2 Sequence Setting

P1	P2	P3	P4	초기값
	①Preset	①Setting ②Edit ③Execute ④Clear ⑤Status		
	②Swing SEQ	①Pan Swing	①Setting ②Execute ③Clear	
		②Tilt Swing	①Setting ②Execute ③Clear	
		③P/T Swing	①Setting ②Execute ③Clear	
	③Group SEQ	①Group1	①Setting ②Execute ③Clear	
		②Group2	①Setting ②Execute ③Clear	
		3 Group3	①Setting ②Execute ③Clear	
		4 Group4	①Setting ②Execute ③Clear	
		⑤Group5	①Setting ②Execute ③Clear	
		6 Group6	①Setting ②Execute ③Clear	
	4 Tour SEQ	1)Setting (2)Ex	cecute 3Clear	
	⑤PTZ Trace	①Trace1	①Replay ②Memorize	
		②Trace2	①Replay ②Memorize	
		③Trace3	①Replay ②Memorize	
		4 Trace4	①Replay ②Memorize	
	⑥Auto Run	①Mode	● Off	OFF
			Preset: Preset No	
			③Swing: Swing Mode Pan/Tile/P&T	
			◆Group: Group No	
			6 Tour	
			6 Trace: Trace1~Trace4	
			⑦A.Pan	
			- ①Auto Pan Speed: 20~50	32
			- ②Tilt Angle: 10~45	25
		2Time	1~59(Sec), 1~59(Min)	30sec
	⑦Power On Resume	On/Off		OFF

3 P/T Setting

P1	P2	P3	P4	초기값
	①Pan Limit	Position		
		2 ON/OFF		
	②Tilt Limit	Position		
		2 ON/OFF		
	3Area Setting	①Area1	Area Name	
		②Area2	2 Position	
		3Area3	❸ ON/OFF	
		4 Area4		
		⑤Area5		
		@Area6		
		⑦Area7		
		®Area8		
	4 Area Masking	①Mask1	•Position	
		②Mask2	2 ON/OFF	
		3Mask3		
		4 Mask4		
		⑤Mask5		
		6Mask6		
		⑦Mask7		
		®Mask8		
	Prop.P/T	ON/OFF		ON
	Obligital Flip	ON/OFF		ON
	Image Hold	ON/OFF		OFF

4 OSD Setting

P1	P2	P3	P4	초기값
	①Camera Name	1Edit 2ON/OFF		
	Preset Number	ON/OFF	ON	
	③Preset Name	1Edit 2ON/OFF		
	Sequence Status	ON/OFF	ON	
	Area Name	ON/OFF		OFF
	OPTZ Position	ON/OFF		ON
	Canguage	English/中文		English

(5) Initialize

P1	P2	P3	P4	초기값
	①Power On Reset	●Cancel ②Execute		
	②Factory Default Set	●Cancel ②Execute		
	③Camera Default Set	●Cancel ②Execute		
	Auto Refresh	OFF, 1~7Days		OFF

6 Status

P1	P2	P3	P4	초기값



Preset setting is only possible on the OSD menu or using the Webpage.



Symbol Description

- When there are sub menus under the selected OSD menu.
 - Numbers are displayed in white color like **1** on the right top of the screen.
- When there is no sub menu under the selected OSD menu.

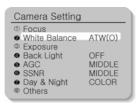
Numbers are displayed in black color like ① on the right top of the screen.

5.2. Camera Setting

5.2.1. White Balance

The White Balance function corrects the abnormal white color into the normal white color under any color temperature lighting.

Select the mode among ATW, AWC and Manual. ATW is selected by default.



■ WB Mode

ATW

Balances the color automatically depending on the source of light from 1,800~10,500K color temperature

- Indoor[ATW(I)]: Use this mode in the area under the limited color temperature.
- Outdoor[ATW(O)]: Use this mode in the area under the broad color temperature.

AWC:

Set up the lighting to the objects and corrects the right color temperature to that of a white object. Camera works under the setup conditions. For the most appropriate condition under the current illumination, capture the white paper and then change the mode into AWC. Press the Enter key and then AWC Start will be displayed. When the adjustment is completed after pressing the Enter key for AWC Start, go to the upper menu. When conditions change, adjust the white balance function again

Manual

Fine tuning is possible through this manual control mode. Select the color temperature and increase or decrease the Red or Blue values to shift the color of the object.

Temperature: Select one temperature among 2,000K, 3,200K and 5.100K.

- Red: Red Gain can be changed.
- Blue: Blue Gain can be changed.



White Balance may not function properly under the following conditions.

- When the color temperature surrounding the object is very high. (e.g. clear sky or sunset)
- When it is dark around the object.
- When the camera is pointing towards a fluorescent lamp directly or when lighting conditions change a lot.

5.2.2. Exposure

Camera exposure can be controlled.



OBrightness

The brightness of the screen can be adjusted.

2Iris

Auto mode or manual mode can be selected.

- Auto: The brightness of the image signal can be adjusted automatically depending on the amount of light.
- Manual: The brightness of the image can be adjusted.

Shutter

- ---: Electronic shutter mode is enabled. The shutter speed is controlled automatically according to the brightness of the screen.
- A.FLK: Use this mode when the screen flickers because of inconsistent frequency with the surrounding lights.
- Manual
 - Select any function you wish to operate by using the UP and DOWN buttons.
 - Shutter speed can be adjusted from 1/60 second to 1/120,000 second.
 - Sens-Up function can be operated manually from x2 ~ x128.



- Do not use this function with WDR of Back Light menu at the same time for effective A.FLK function.
- If the Shutter mode is ESC in the inner synchronization mode and the camera faces to the bright fluorescent lamp directly, the image may be unstable. Be careful to select the installation location.
- If the Manual or A.FLK mode is selected for the Shutter menu, the Sens-Up function is disabled.

4 Sens-Up

- Auto: The low light level of the night or dark condition is detected automatically and the bright and clear image can be maintained.
 - Sens-Up Limit: Maximum accumulated magnification can be selected.
- Off: Sens-Up function is cancelled.



As the accumulated magnification increases, the screen goes bright. But, the after image of the moving object also becomes larger and the optimum Auto Focus function may not work

5.2.3. Back Light

As Samsung's own SV-III DSP chip technology is adopted, even under excessive backlight condition, both the object and the background can be displayed clearly unlike other cameras.



- WDR: When both, bright and dark areas exist, the objects of the two areas can be seen clearly.
 - WDR Limit: High, Middle or Low mode can be selected.
- Off: WDR function is cancelled.



- When the Shutter menu is in Manual mode, WDR function cannot be used.
- When the WDR function is used, the following results may occur depending on lightning conditions. Under these conditions, turn off the WDR mode.
 - Unnatural color change or unnatural screen may occur.
 - There may be noises in the bright area of the screen.
- WDR performance may vary depending on the bright areas on the screen. Thus, optimize the camera installation angle for optimized WDR function.
- If the WDR Limit is increased, the screen may become unnatural.

5.2.4. AGC

When the brightness of the image taken under dark light is under a certain level, the AGC (Automatic Gain Control) functions to define whether to control the Gain automatically or not.



Select one mode among High, Middle, Low or Off.

5.2.5. SSNR (Samsung Super Noise Reduction)

SSNR function reduces background noise under low light conditions differently in different modes. The noise reduction effect grows in Off, Low, Middle and High modes in order.



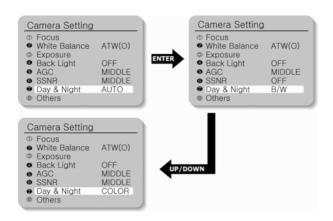
- OFF: No noise reduction effect.
- LOW: Noise reduction effect is small but there is little afterimage.
- MIDDLE: Noise reduction effect is generally effective in this mode.
 Noise can be reduced properly and the afterimage is not strong.
- HIGH: Noise reduction effect is excellent but afterimage is also strong.



When you select the AGC mode as "OFF", you cannot use the SSNR function

5.2.6. Day & Night

The darkness level is detected automatically under low light conditions such as at night or under dark light to keep the screen bright and clear.

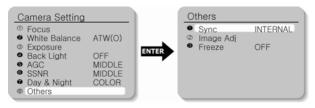


- COLOR: Output images are displayed in color all the time. Burst signal size can be adjusted.
- B/W: Output images are displayed in black and white all the time.
 Burst signal can be kept or removed.
- AUTO: Under day condition, the mode is automatically changed into the COLOR mode to keep an optimum color. At night, the mode is automatically changed into the B/W mode to distinguish dark images clearly.



- If the AGC is in OFF mode, the Auto mode cannot be used. Only COLOR or B/W mode can be used.
- If the sunlight or halogen lamp is used in B/W mode, the focus may be blurred compared with the general illumination

5.2.7. Others



OSync

Internal Sync or Line Lock can be selected. Internal Sync is selected by default. Line Sync function can adjust the output phase of more than 1 unit without using sync signal generator. When the AC Line Lock is selected, the phases can be adjusted from 0 to 360 levels. Accordingly, the phase can be adjusted up to 360°

- Internal : Internal synchronization
- Line Lock : Power line synchronization
- Line Lock Phase: The phase of line sync can be selected from 0° to 360° Initial value is 225°

2Image Adj.

Brightness, sharpness and color density of the image signal can be adjusted.

- Tone : The overall brightness of the screen can be adjusted.
- Sharpness: The overall sharpness of the image can be adjusted.
- Color: The overall color density of the image can be adjusted.

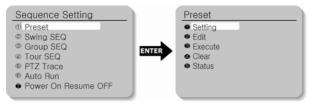
6 Freeze

Moving image can be stopped and replayed.

- ON: Image can be frozen.
- OFF: Frozen image is released and the film is replayed.

5.3. Sequence Setting

Sequence Setting Menu



5.3.1 Preset

12 items such as Pan/Tilt location, Zoom and Focus are selected among camera functions and they can be called for monitoring. Total 128 points can be preset.

- Edit: You can edit the 11 preset items such as Pan/Tilt location,
 Zoom and Focus, which are selected among camera functions.
- Execute: Select the Preset number for execution.
- Clear: Select the Preset number to delete for clearing.
- Status: The current Preset number setup is displayed.

■ Preset Menu Setting

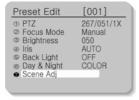
- 1. Select the Preset item on the Sequence Setting Menu.
- 2. Select the Setting item.



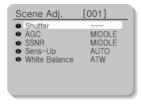
- 3 Select the Preset number.
- 4. Set up the Zoom and Focus.



If you want to edit the camera function setup items, go to each item and select it.

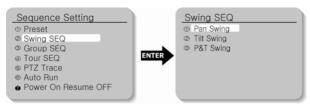


If you select the Scene Adj. item, such items as Shutter, AGC, SSNR, Sens-Up and White Balance can be set up differently in every Preset item.



5.3.2. Swing SEQ

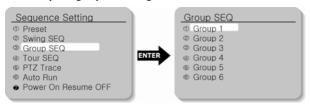
Swing surveillance can be executed and set up and the data can be deleted



- Pan Swing: Swing surveillance for the Pan direction is executed and set up. Data is deleted.
- Tilt Swing: Swing surveillance for the Tilt direction is executed and set up. Data is deleted.
- P&T Swing: Swing surveillance both for the Pan and the Tilt directions are executed and set up simultaneously. Data is deleted.
 - Setting: Preset Position for Swing is selected and confirmed.
 SPD is the moving speed (1-64 °/sec). DWL is the stop time (1-128 sec).
 - Execute : Swing surveillance is executed.
 - Clear: Data in the Swing function is deleted.

5.3.3. Group SEQ

Sequence surveillance can be executed and set up and data can be deleted. Up to 6 groups can be registered.



- Setting: Preset position for swing is selected and confirmed.
 SPD is the moving speed (1-64 °/sec). DWL is the stop time (1-128 sec).
- Execute: Swing surveillance can be executed.
- · Clear: Swing data can be deleted.

5.3.4. Tour

Group surveillance can be executed and set up and data can be deleted.



- Setting: The registered Group Sequence is selected and confirmed. If the selected number is not registered, it cannot be input.
- Execute: Group surveillance is executed.
- Clear : Group surveillance data are deleted.

5.3.5. PTZ Trace

Maximum 4 patterns of the manual operation paths (for Pan, Tilt, Zoom and Focus) are memorized and replayed.





If the operation range is limited using ①Pan Limit and ②Tilt Limit, please note that other operations beyond the limited operation range are not possible.

 Memorize: Manual operations for minimum 120 seconds after executing this function are memorized into the internal memory. Nevertheless, the memorizing time becomes different depending on the PTZ operation. OVER mark will finish this function.



If the operation range is limited using ①Pan Limit and ②Tilt Limit, only the operations within the limited range are memorized.

5.3.6. Auto Run

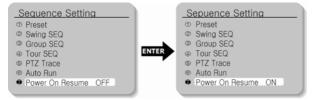
If there is no operation by the user for a certain time, the sequence operation designated by the user will be executed.

- Mode:
 - OFF: Auto Run will be cancelled.
 - Preset: Auto Run in the corresponding Preset number

- Swing : Auto Run in the corresponding Swing mode
- Group : Auto Run in the corresponding Group number
- Tour : Auto Run in the corresponding Tour number
- Trace: Auto Run in the corresponding Trace number
- A. Pan : 360° Auto Run in Pan direction
 - Auto Pan Speed: Pan operation in the speed designated by the user
 - Tilt Angle: The tilt angle set up by the user is kept.
- Time: Auto Run operation is executed after a certain time designated by the user. (Time can be set up by the unit of 1-59 sec and 1-59 min.)

5.3.7. Power On Resume

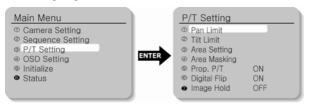
When the power supply for the camera is stopped for some reason, such as electricity failure, and resumed, the Sequence Settings before the power off are restored.



5.4. P/T Setting

541 Pan Limit

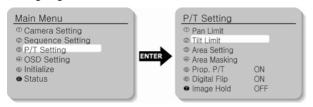
The moving range in the Pan direction can be limited.



- Position: Moving range can be set up. Set the position from the left. The stop position may change due to the initialization by such operation as power resumption depending on position setting. This does not mean it is out of order.
- On/Off: When this function is on, the limit is effective. Default setting is Off.

5.4.2. Tilt I imit

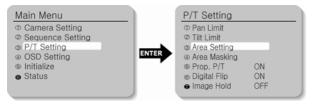
Moving range in the tilt direction can be limited.



 Position: Moving range can be set up. Set the position from the top direction. The stop position may change due to initialization by such operation as power resumption depending on position setting. This does not mean it is out of order. On/Off: The application of limitation will be determined. Default setting is Off.

5.4.3. Area Setting

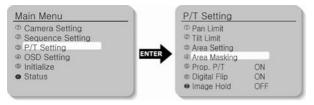
Areas can be indicated. Areas can be designated up to 8.



- Area Name: Area name can be set up. A maximum of 12 letters (English, Chinese, numbers) can be entered. When you finish inputting the name, adjust the position mark to "SET".
- Area Position: Area range can be designed. If the area range is overlapped, the smaller area number will indicate the overlapping part.
- On/Off: It can be determined whether or not to activate the area mark. The activation becomes effective as soon as the position moves from the current area to other areas. Set up the OSD Setting as ON. If it is in OFF mode, this function does not work. Default setting is OFF.

5.4.4. Area Masking

If you want to exclude some areas for surveillance, they can be turned into black. You can mask 8 parts of one screen (maximum 32 parts).



- Position : Detect the position for screen operation from the left.
- On/Off: Operation of screen area masking can be determined.
 Default setting is OFF.

5.4.5. Prop. P/T

Pan and Tilt speeds can be changed depending on zoom magnification. Tele will slow down the speed of Pan/Tilt and Wide will increase the Pan/Tilt speed. It will take about 15 seconds for 1 cycle in Tele mode and about 1.5 seconds in the Wide mode. Default setting is ON.



5.4.6. Digital Flip

When you operate the Tilt up to 90° limit and keep it for a certain time, the image gets reversed automatically and the opposite Tilt area is seen. When you want to monitor the moving object under the camera, execute the Digital Flip function. You can observe the moving object without reversing of the screen.



5.4.7. Image Hold

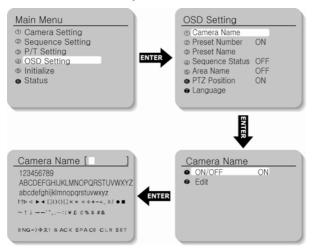
When moving from one Preset item to another Preset item, the Preset image before moving can be held before the camera direction reaches to the new Preset position. This function is for visual convention of monitoring observer.



5.5. OSD Setting

5.5.1. Camera Name

Camera ID indication is set up.





If you want to edit the item, move the cursor. Then select the character

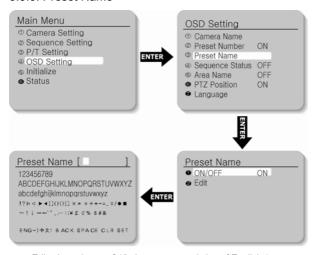
- Edit: A maximum of 12 characters consisting of English (or Chinese), numbers and special characters can be input for Camera Name.
- On/Off: The operation of this function is preset. Default setting is On.

5.5.2. Preset Number

Preset numbering is set up. (Default setting is ON.)



5.5.3. Preset Name



 Edit: A maximum of 12 characters consisting of English (or Chinese), numbers and special characters can be input for Preset Name. On/Off: The operation of this function is predetermined. Default setting is On.

5.5.4. Sequence Status

Display of the Sequence Group is set up. (Default setting is ON.)



5.5.5. Area Name

Display of Area Name is set up.



5.5.6. PTZ Position

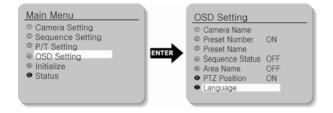
Pan and Tilt position and Zoom magnification are displayed.

PTZ positions are not displayed in the OFF mode. (Only manual operation can display them.)



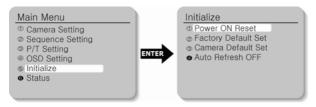
5.5.7. Language

It selects a language.(English, Chinese)



5.6. Initialization Setting

Initialization Menu



①Power On Reset

Camera is initialized into the original status of power input.

②Factory Default Settings

Camera is initialized into the factory default settings. Data including Preset is deleted. This function is used for initialization all settings.

3Camera Default Settings

If only the camera module is replaced due to camera module failure, the new camera module can be set up with the settings of the old camera module

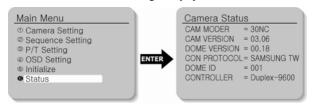
Auto Refresh

The electric circuit and the status of the equipment parts within the camera are optimized regularly. (The cycle can be set up.) If camera faces toward a certain source of light or if the settings cannot be kept because of the long time rotation filming of a certain area, the Auto Refresh function is used to maintain and re-set the existing camera settings. Default setting is OFF.

OFF, 1-7 Days: This function is disabled in the OFF mode. 1-7
Days enables the Auto Refresh operation in the interval of the
selected days. Auto Refresh takes less than 10 seconds. The
message "Auto Refresh" disappears after finishing the operation.

5.7. Status

The status of dome camera setting is displayed.



CAM MODEL= 30NC	Camera Model
CAM VERSION= 03.06	Camera S/W Version
DOME VERSION= 00.1	Control Board S/W Version
DOME ID= 001	Dome Camera ID
CONTROLLER= Duplex-9600	Communication Mode Setup
1	

Ch6. Troubleshooting

If there are problems in operation, please refer to the items below. If the problem persists, please contact the agent you purchased this product from.

Problem	Solution
Nothing appears on the screen.	 Please check the power connection. Please check the video signal line connection. Open MS-DOS window to check whether 30X PTZ Network Camera SNP-3300 is connected to network. In case of ping 192.168.1.100, replace it with IP address set up at server
The video image is not clear.	 Please check if the lens is clean. Please clean the lens with a clean cloth or brush. Please adjust the contrast feature of the monitor. Please make sure that the screen is not exposed directly to a bright light. Please move the camera if necessary.
The screen is dark.	 Please adjust the contrast feature of the monitor. If you have an intermediate device, set the 75Ω/Hi-z properly, and check the terminals.
There is a problem with the camera operation. The camera surface is too hot and black stripes appear on the screen.	Please check if an appropriate power source to the camera complies with the manufacturer's standard requirement, or if the voltage keeps changing.

Problem	Solution
The MOTION DETECTION function is not working.	Please check if 'MOTION DETECTION' mode is turned on. Please check if the MD LEVEL is too low. Please check the setting of the MD AREA.
When camera cannot be controlled for Pan/ Tilt/ Zoom	 Inspect the cables(power or network) connected to the device. Connect to Admin page to check whether user control is selected.
Colors are not quite right.	Please check the 'WHITE BAL' setting.
The screen is flickering.	 Please check if the camera is facing directly into sunlight or fluorescent light.
L/L mode isn't able to be selected.	 Please check the frequency of power supply (60Hz for NTSC, 50Hz for PAL).
DAYNIGHT(Auto) mode is not working.	 Please check if the AGC menu is set to the OFF position.
SENS-UP function is not working.	 Please check if the AGC menu is set to the OFF position. Please check if the SHUTTER menu
	is set to MANUAL mode. • Please check the limit of SENS-UP AUTO mode.

Problem	Solution
Audio is not working	Please check the audio is selected from admin page. Please check speaker volume from the viewer. In case input sound through microphone at Viewer is not outputted through Audio Out of server, please check whether Audio Out channel is selected at admin page. Or check whether microphone is available at
	Viewer. Please check audio driver is working in user's PC.
Video is stopped	Please check whether network cable of 30X PTZ Network Camera SNP-3300 is correctly connected
	In case user uses hub or IP router, check whether these network equipments are working properly. Once MS DOS windows and check. Once MS DOS windows and check.
	Open MS-DOS window and check whether 30X PTZ Network Camera SNP-3300 is connected to network.
No image from web viewer	Click 'refresh (shortcut; F5) ' button at browser to recall the page
	Check whether power of camera and network cable is properly connected.
	Check whether computer is connected to network.
	If you use hub or router, check whether such equipments are properly operated. (Note: Open MS-DOS window and enter network ID of camera at ping 192.168.1.100)
	Connect to Admin page to check whether video output is selected.

Problem	Solution	
Image transferred to FTP or by E-mail cannot be viewed	Video may not be viewed since Divx codec is not installed in user's PC. Divx codec can decode video compressed with MPEG4. Download and install the latest Divx codec, and check video. http://www.divx.com/divx/download	

Appendix A. DDNS Usage

Registration process of DDNS is as following:

Step1) Complete the registration form in iPOLiS website.

The website is 'www.samsungipolis.com'.



Figure A-1. Website of iPOLiS



Figure A-2. Membership Registration: SIGNUP



Figure A-3. Membership Registration: Input your information.

O Step2) Register the equipment after login.

WELCOME to IPOLIS!



Figure A-4. Login



Figure A-5. The list of registered equipment.



Figure A-6. The list of registered equipment.



Figure A-7. Product Registration.

(Confirm repetition certainly at domain registration.)

Step3) Configure DDNS information in the equipment.

Click the part of Network Configuration in website of Network Camera

Click "USE DDNS" in order to do "Enable" and input the address of DDNS Server.

(Default: www.samsungipolis.com)

Enter the ID and Password that is written when register product is in iPOLiS website.



The Configuration of DDNS in SNP-3300 is Completed.

 Step4) Confirm the connection status of relevant product in product list of iPOLiS website.



Figure A-8. The List of Product.

Be able to confirm the information of connected equipment if click <check> button of 'Product information'.



Figure A-9. Product information

Move to Login website of relevant product if click <view>button of 'view'.

The buttons which are <Edit> and <Delete> of 'product management' move to relevant page through input password to item that fertilize or erase information of registered equipment in List of product.

Only, 'ID(Domain)' of product should establishes again as 'ID(Domain)' after deleting because it can't be fertilized.



Figure A-10. Edit/Delete

Specifications

Items	SNP-3300N	SNP-3300P	
Imaging device	1/4" Color Vertical Double	e Density Interline CCD.	
	410.000pixel		
TV	NTSC	PAL	
Total Number of Pixels	811(H) X 508(V)	795(H) X 596(V)	
Valid Pixel	768(H) X 494(V)	752(H) X 582(V)	
Horizontal Scan	15.734kHz	15.625KHz	
Frequency	50.0411	5011	
Vertical Scan	59.94Hz	50Hz	
Frequency		(401:11-)	
Synchronization	Internal Sync/External Sync 1.0p-p/75Ω	(AC LINE LOCK)	
Image Output			
S/N Ratio	Higher than 50dB (AGC OF		
Horizontal Resolution	520 TV Lines (Color)/570 T\	, ,	
Minimum Light for	0.4Lux(Color),0.08Lux(B/W)		
Object	0.0006Lux (Day & Night is C		
Electronic Shutter	Auto/Manual (1/60 - 1/120.0	00)	
Sens-Up	ON (x2 - x128 Fields) / OFF		
Day & Night	ICR(Filter Switching) ON/OFF		
WDR	52dB ON/OFF		
White Balance	ATW(Indoor/Outdoor Selecti Manual (1,800K - 10,500K)	,	
Flickerless Adjustment	Fixed Shutter Speed (1/100)	Fixed Shutter Speed (1/120)	
Iris	Auto/Manual (Iris Level Adju	stment Mode)	
Gain Control	Low, Middle, High, Off		
OSD Display	ON/OFF		
Outline Correction	Adjustable Level		
Contact Point Distance	F3.3 ~ 99.0mm(30X Optical	Zoom)	
Digital Zoom	OFF, 2X, 4X, 8X(Total 240X	Zoom)	
Maximum Aperture Rate	Light Angle 1:1.6 Telescopic	1:3.7	
Coverage Angle	F=3.3mm 58°(Horizontal) X f=99.0.mm 2.22°(Horizontal)		
Proximity Distance	1.2m(Tele level)		
Horizontal Rotation	360°		
Angle	360		
Horizontal Rotation	Manual/Program		
Horizontal Rotation	Manual: 0.5° ~ 120°/s(64 lev		
Speed	Preset: 0.5° ~ 240°/s(64 leve	els)	
Horizontal Minimum Moving Angle	0.05°		
Accuracy of Horizontal Rotation Stop	0.30°		
Vertical Rotation Angle	-4°~ 184° (Digital Flip)		

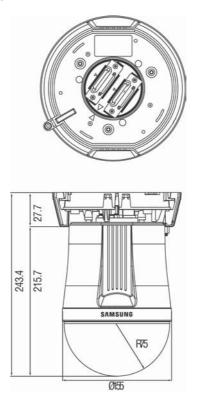
	Items	SNP-3300N	SNP-3300P	
Vertica	I Rotation	Manual/Program		
Vertica	l Rotation Speed	Manual: 0.5° - 120°/s(64 levels) Preset: 0.5° - 240°/s(64 levels)		
Vertica Moving	l Minimum Angle	0.04°		
	acy of Vertical on Stop	0.30°		
Preset	Position	Max 128 points		
Area M	Masking	Max 8 locations		
Alarm		4 Alarm Inputs 2 Alarm Outputs (Relay: NC/NO/COM, 0.5A 125VAC, 2A 30VDC Max)		
Operat	ting Temperature	0°C - +40°C	,	
	ting Humidity	30% ~ 80%(Except for dew	condensation)	
	Voltage	AC 24V±10%	,	
Consu	mption Electricity	Max 18W		
Dimen		Ø155 X 243.4mm		
Weight	t	Less than 2.5kg		
Installation Conditions		- Ceiling Bracket: STB-330PC - Indoor: Indoor Housing (STH-330PIV), Embedded Housing(STH-330PEV) - Outdoor: Outdoor Housing (STH-320PO) - Wall Bracket: STB-270PWV - Pendant Bracket: STB-496PPV		
Output	Video Format	MPEG4 / MJPEG Selectable		
Output Resolution		NTSC: 704 x 480(D1), 704 x 240(Half D1), 352 x 240(CIF) PAL: 704 x 576(D1), 704 x 288(Half D1), 352 x 288(CIF)		
Video (Compression	5 stages (Very Low, Low, Middle, High, Very High)		
Audio	Format	Bi-directional audio, 8KHz A	DPCM	
Ethern	et	10/100Mbps		
Protoc	ol	HTTP, TCP/IP, PPPOE, FTP, SMTP, DHCP, DNS, DDNS, NTP		
Dynamic IP		Supports XDSL and DHCP		
DDNS		Supports DDNS		
Max. User		20 Users		
	PC Viewer	Supplied		
S/W Web Page Web ActiveX Embedded Web Server Control				

^{**} The product design and dimensions may change without previous notice for improvement of performance.



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Dimension



SAMSUNG TECHWIN



SALES NETWORK

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P/NO: Z6806.0835.01C